

The MaST Research Institute

The MaST Research Institute provides a gateway for tomorrow's leaders in science, mathematics, engineering, and technology.

Graduates of MRI have become:

- *Beckman Scholars*
- *Ivy League Graduates*
- *Chemical Engineers*
- *Mote Marine Scientist*
- *Graduate Students & PhD's*
- *Medical Doctors*
- *Nurses*
- *Nuclear Engineer*
- *And more in the works...*



About Sarasota High School

Sarasota High School opened in the year 1913 and is the oldest high school in Sarasota. Along with the award winning MaST program, Sarasota High has a continuing excellence in academia, athletics, and community service.

Sarasota High is very proud of the rigor its academic classes provide. Sarasota High provides Advanced Placement courses that allow students to earn college credit in Calculus AB and BC, English, Biology, Chemistry, American History, American Government, Art History, and Physics, all of which have consistently high passing rates.

Students who attend SHS enjoy:

- A Nationally ranked baseball program, winners of multiple State Championships
- An excellent athletic program, including past state championships in softball, tennis, swimming, golf, and girls basketball
- Service and academic clubs, including National Honor Society, Key Club, La Sertoa, Student Government, Academic Olympics, Mu Alpha Theta, Speech and Debate, and Drama Club
- An outstanding Arts Community, including a marching band that consistently receives high marks in competition and a drama department that rivals any other school in the county

MaST Research Institute

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Tel: (941) 955-0181 Ext. 64581

What is MRI?

In the fall of 1995, the School of Excellence in Math, Science, and Technology (MaST) was established at SHS (Sarasota High School). The MaST Research Institute (MRI) operates as a school-within-a-school and is intended to provide qualified students with a rigorous enriched curriculum to prepare them for entry into Math, Science, Medical or Engineering related careers following high school. The School offers a common academic core coupled with internships, career shadowing, mentor-supervised research, and participation in summer institutes. The MaST Research Institute offers students a competitive edge when applying to university degree programs.



Students in the MaST program, along with students in the Marine Science classes at SHS, have the opportunity to study aboard The Carefree Learner, a true “floating classroom.”

RESEARCH PLAN

Freshman year

- Introduction to basic research skills including:
 - introduction to the scientific method
 - reading published scientific research articles
 - providing summary of published research
 - unique research project development
 - original hypothesis development
- DuPont Essay contest entrance

Sophomore year

- Full development of unique research project
- Article readings concentrating on a specific subject
- Written research plan including:
 - Hypothesis
 - Procedures
 - Data collection
 - Proper paper work (in accordance with science fair guidelines)
- Development of a relationship with outside mentor(s) from the community to be a guide for research projects
- Entrance to Sarasota County Regional Science Fair
- Possible attendance of summer research internship

Junior year

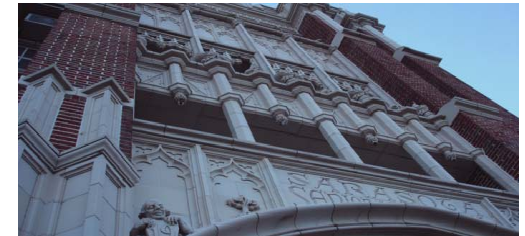
- A clear understanding of unique research is attained
- Work built off of research from sophomore year, but more rigorous and concise
- Research project is expected to place in the Sarasota County Regional Science Fair.
- Application to present at science symposiums is required
- Possible attendance of summer research internship

Senior year

- Culmination of all work and knowledge from previous years' research
- Continued research from junior year with a new plan and hypothesis
- Research project is expected to place in the Sarasota County Regional Science Fair
- Application to present at science symposiums is required
- Presentation and defense of research at annual MaST Research Symposium

POINTS OF PRIDE

- MaST Research Scholars have continually been admitted to and attend top Universities including Boston University, Harvard, Princeton, Yale, Oxford, Dartmouth, Duke, Columbia, Georgetown, Georgia Tech, the University of Florida and many more.
- Since 1995, MaST students have placed in every category entered in the Sarasota County Regional Science Fair.
- MaST students won the DuPont Essay Contest in 2001 and 2003. In 2001, MaST had the only two winners in the state of Florida.
- Sarasota High School is the school with the most recipients of the prestigious Scientific Dr. Carl Luer Award, which awards the top high school student from the county in the area of science and research.
- Many MaST Scholar graduates have continued pursuing research at the collegiate level.



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